

FEB 19 1982

U.S. DEPARTMENT OF LABOR

OSHA 170-24-11307

Occupational Safety and Health Administration

MATERIAL SAFETY DATA SHEET *typ 2*

Required under USDL Safety and Health Regulations for Ship Repairing,
Shipbuilding, and Shipbreaking (29 CFR 1915, 1916, 1917)

SECTION I

MANUFACTURER'S NAME MONSANTO COMPANY		EMERGENCY TELEPHONE NO. (314) 694-1000
ADDRESS (Number, Street, City, State, and ZIP Code) 800 North Lindbergh Boulevard, St. Louis, Missouri 63166		
CHEMICAL NAME AND SYNONYMS SKYDROL[®] 500B		TRADE NAME AND SYNONYMS SKYDROL[®] 500B
CHEMICAL FAMILY Aircraft hydraulic fluid	FORMULA	

SECTION II. HAZARDOUS INGREDIENTS

PAINTS, PRESERVATIVES, & SOLVENTS	%	TLV (Units)	ALLOYS AND METALLIC COATINGS	%	TLV (Units)
PIGMENTS			BASE METAL		
CATALYST			ALLOYS		
VEHICLE			METALLIC COATINGS		
SOLVENTS			FILLER METAL PLUS COATING OR CORE FLUX		
ADDITIVES			OTHERS		
OTHERS					

HAZARDOUS MIXTURES OF OTHER LIQUIDS, SOLIDS, OR GASES	%	TLV (Units)
Not hazardous by definitions in 29 CFR Section 1915.2		
which pertains to this data sheet.		

SECTION III. PHYSICAL DATA

BOILING POINT (°/760mm (with Decomp)) ~350°C	SPECIFIC GRAVITY (H ₂ O=1) 25/25°C	1.062
VAPOR PRESSURE (mm Hg.) 72°F	7mm	PERCENT VOLATILE BY VOLUME (%) N.A.
VAPOR DENSITY (AIR=1)	N.A.	EVAPORATION RATE (_____=1) N.A.
SOLUBILITY IN WATER	Negligible	
APPEARANCE AND ODOR	Clear purple liquid - Mild pleasant odor	

SECTION IV. FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (Method used) COC >350°F	FLAMMABLE LIMITS	Lel	Uel
EXTINGUISHING MEDIA	Dry powder, CO ₂ , chemical foam water fog		
SPECIAL FIRE FIGHTING PROCEDURES			
UNUSUAL FIRE AND EXPLOSION HAZARDS			

Skydrol 500B

SECTION V

HEALTH HAZARD DATA

Not established

Impossible at ambient temperature. Excessive high temperature may produce irritating vapors.

Unlikely to be necessary. Remove to fresh air.

SECTION VI REACTIVITY DATA

STABILITY	UNSTABLE		CONDITIONS TO AVOID
	STABLE	X	
INCOMPATIBILITY (Materials to avoid)		None	
HAZARDOUS DECOMPOSITION PRODUCTS		Smoke, soot, CO, CO ₂	
HAZARDOUS POLYMERIZATION	MAY OCCUR		CONDITIONS TO AVOID
	WILL NOT OCCUR *	X	

SECTION VII SPILL OR LEAK PROCEDURES

STEPS TO BE TAKEN IN CASE MATERIAL IS RELEASED OR SPILLED

Clean up like other non-hazardous liquids.

WASTE DISPOSAL METHOD Same as motor oil.

SECTION VIII SPECIAL PROTECTION INFORMATION

RESPIRATORY PROTECTION (Specify type) Not necessary.

VENTILATION	LOCAL EXHAUST	If excessively high temp.	SPECIAL
	MECHANICAL (General)	Not necessary.	OTHER
PROTECTIVE GLOVES		Not necessary.	EYE PROTECTION
OTHER PROTECTIVE EQUIPMENT		None	

Not necessary except as good industrial practice.

SECTION IX SPECIAL PRECAUTIONS

PRECAUTIONS TO BE TAKEN IN HANDLING AND STORAGE

Although no special precautions appear

necessary, good industrial practice as to housekeeping, personal hygiene,

avoidance of prolonged and repeated skin contact and splashing in eyes is indicated.

While the information and recommendations set forth herein are believed to be accurate as of the date hereof, MONSANTO COMPANY MAKES NO WARRANTY WITH RESPECT THERETO AND DISCLAIMS ALL LIABILITY FROM RELIANCE THEREON.

NON:EPV:WPB

3/7/72

BOE-C6-0189549

SKYDROL® 500B fire resistant hydraulic fluid

TOXICITY

The rat acute oral LD₅₀ of SKYDROL 500B is 2.05 grams/kilogram. When held in continuous 24-hour contact with rabbit skin, the dermal LD₅₀ was estimated to be between 2.0 grams/kilogram and 3.16 grams/kilogram. Thus, SKYDROL 500B is considered to be slightly toxic by ingestion in single doses and by single dermal applications.

When SKYDROL 500B was placed into the conjunctival sac of the rabbit eye, a mild degree of irritation resulted. The average maximum score, recorded 24 hours after treatment, was 20.3 on a scale of 110.0. The irritation in 2 of 3 treated eyes had subsided by 168 hours after dosing. Slight erythema still remained in the third eye.

A mild degree of irritation resulted when SKYDROL 500B was held in continuous 24-hour contact with intact rabbit skin. The average maximum score, recorded 24 hours after treatment, was 2.6 on a scale of 8.0.

Male rats, exposed to an atmosphere containing a nominal SKYDROL 500B concentration of 1.1 milligrams/Liter survived both the 6-hour exposure and the subsequent 10-day observation periods.

Patch testing of 50 human volunteers with SKYDROL 500B produced one positive reaction following the initial application but no positive reactions following the subsequent challenge application. It was concluded that this product was not a primary skin irritant or a sensitizing agent. Skin changes compatible with the criteria of a fatiguing agent were observed in 5 out of 50 subjects.

HANDLING PRECAUTIONS

When applied repeatedly to the skin, SKYDROL 500B can cause a drying, solvent-like action. For this reason, the following precautions are recommended.

Care should be taken to avoid eye contact with SKYDROL 500B. In case of eye contact, flush immediately with large volumes of water. If irritation persists, consult a physician.

Repeated or prolonged skin contact with SKYDROL 500B should be avoided. In case of skin contact, wash affected area thoroughly with soap and water.

SKYDROL 500B appears to possess no other acute toxicologic properties which would require special handling other than the good hygienic practices employed with any industrial chemical.

2/27/76
Y-65-165
SH-66-5

The above information is based upon studies conducted for Monsanto Company. It is believed to be correct, and it is supplied to others upon the condition that the persons receiving it shall make their own determination of its suitability for their purposes. No warranty is expressed or implied regarding the accuracy of this information or the results to be obtained from its use.

Inquiries regarding this information are to be referred to the Department of Medicine & Environmental Health, 800 N. Lindbergh, St. Louis, Mo. 63166, (314) 694-1000.